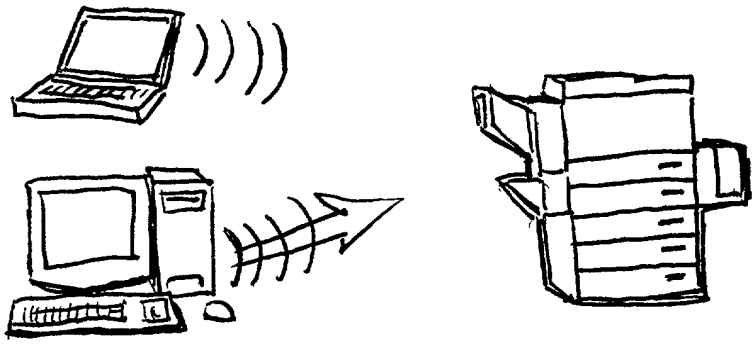


FIG. 1

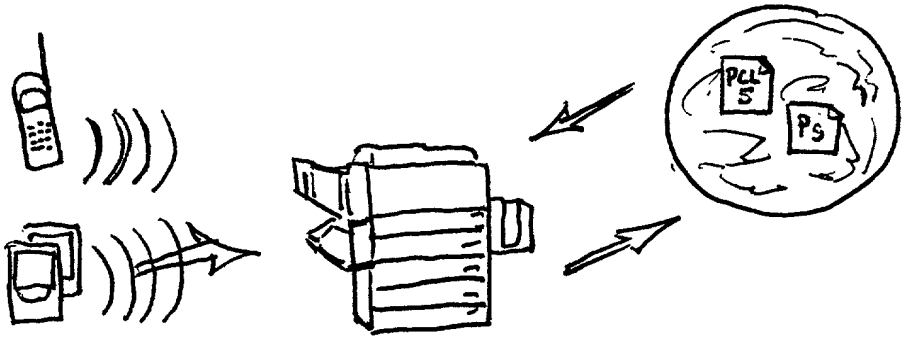


FIG. 2

EPSON Exhibit 1005

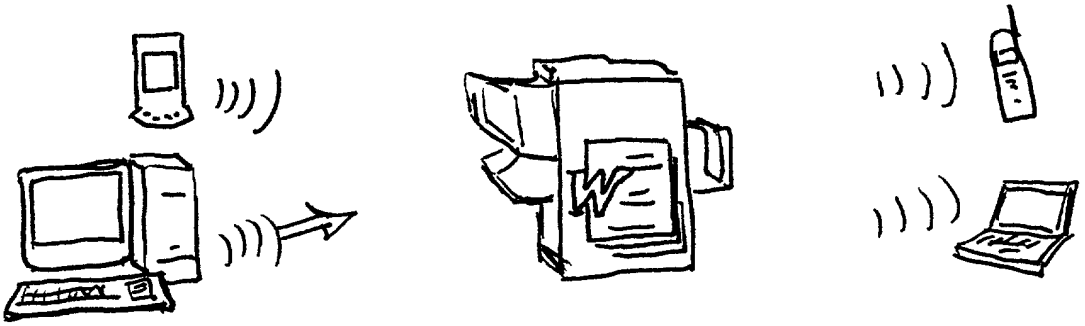
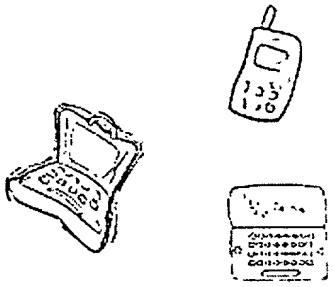


FIG. 3

EP 1 715 428 A1



The automatic synchronizer

FIG. 8

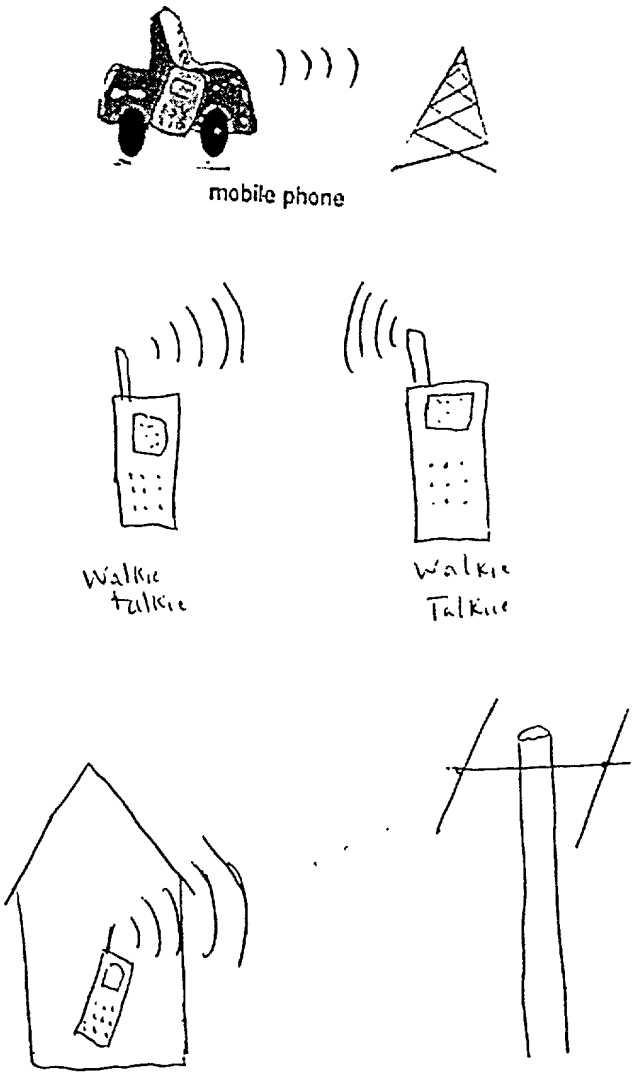


FIG. 4

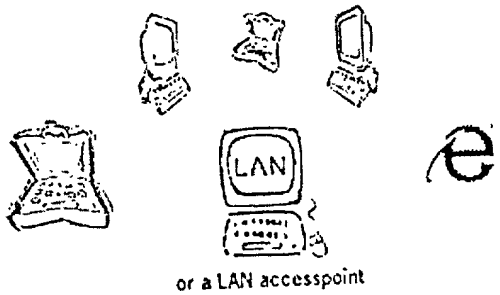


FIG.5

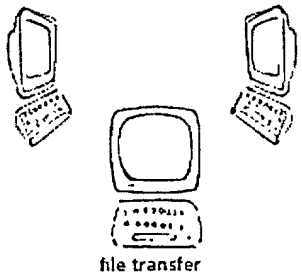


FIG.6

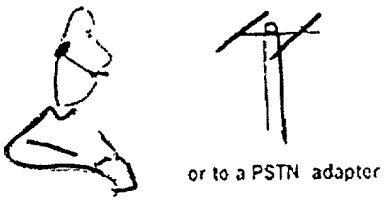


FIG.7

EP 1 574 963 A1

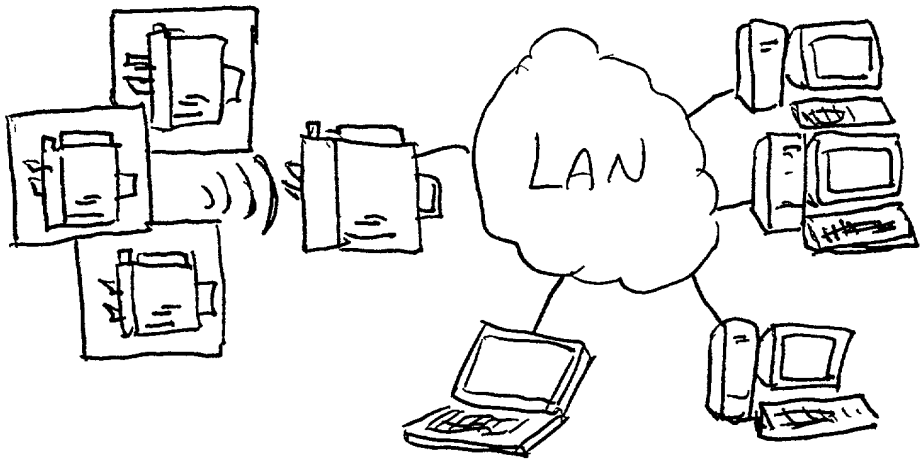


FIG. 9

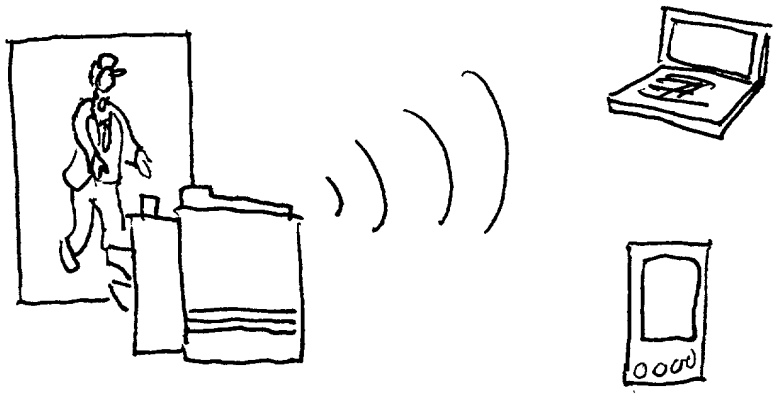


FIG. 10

EDITED ELECTRONICALLY

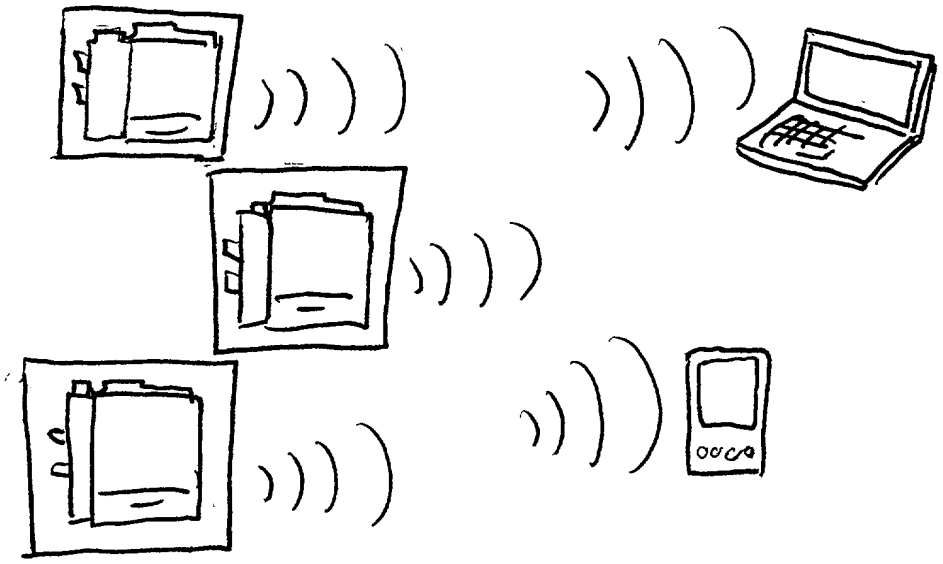


FIG. 11

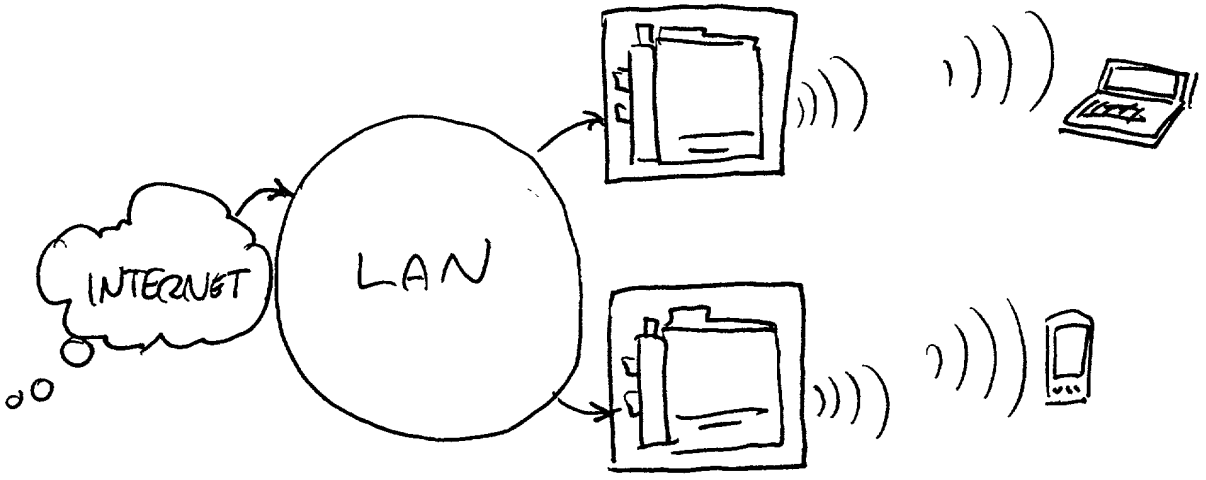
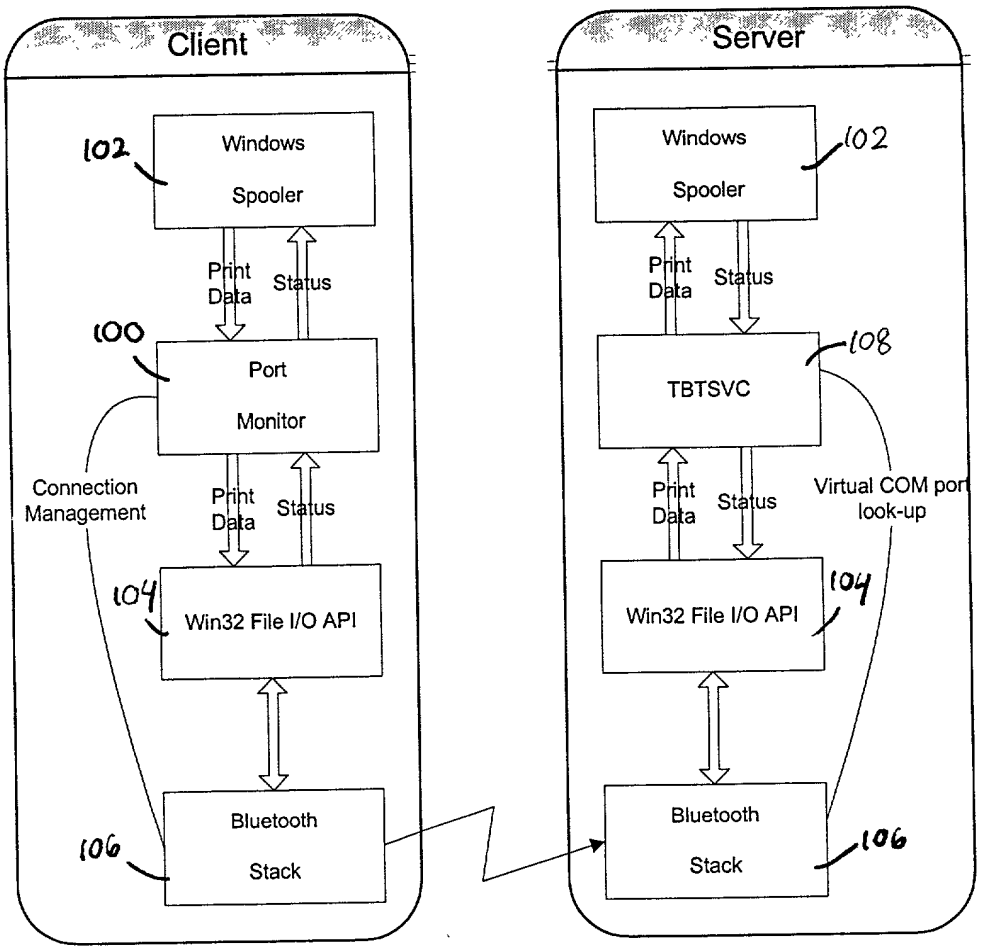


FIG. 12



Toshiba Bluetooth Printing System - Block Diagram

Fig. 13

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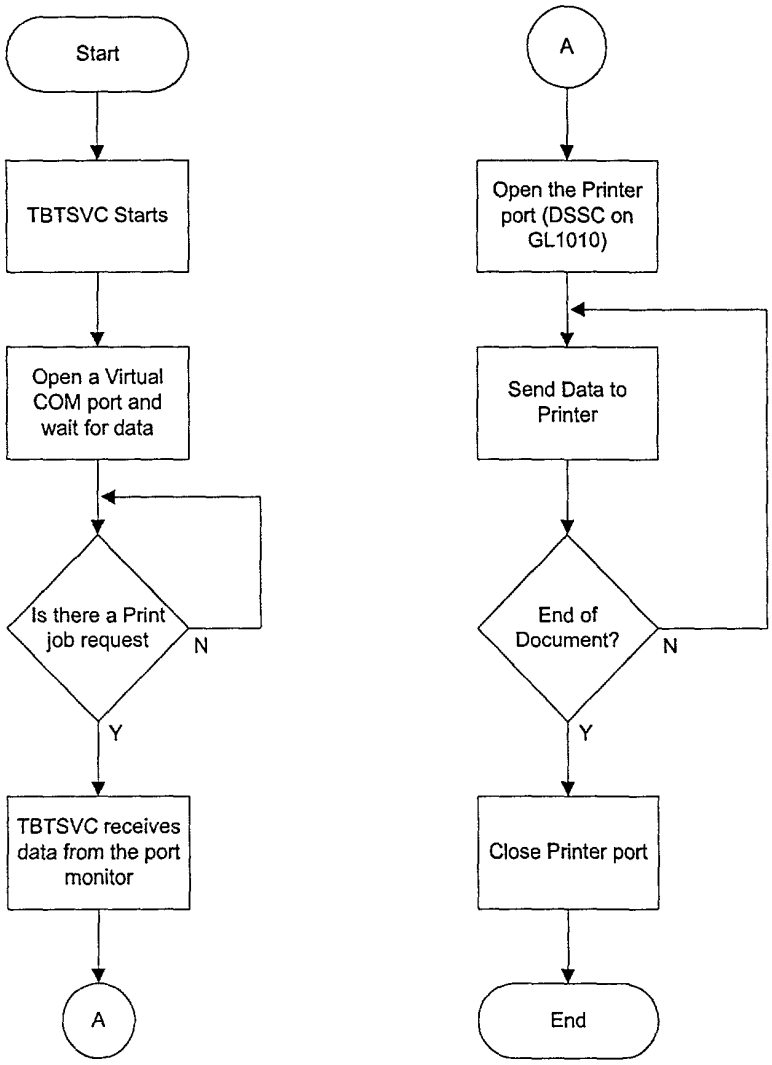
Start
TBTSVC Starts
Open a Virtual COM port and wait for data
Is there a Print job request
N
Y
TBTSVC receives data from the port monitor
A
A
Open the Printer port (DSSC on GL1010)
Send Data to Printer
End of Document?
N
Y
Close Printer port
End

Fig. 14

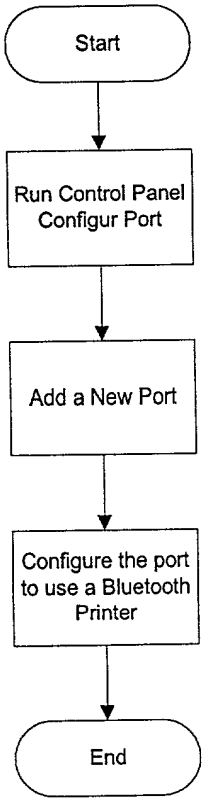
Start
Run Control Panel
Configur Port
Add a New Port
Configure the port
to use a Bluetooth
Printer
End

Fig. 15

EP 1 744 254 A1

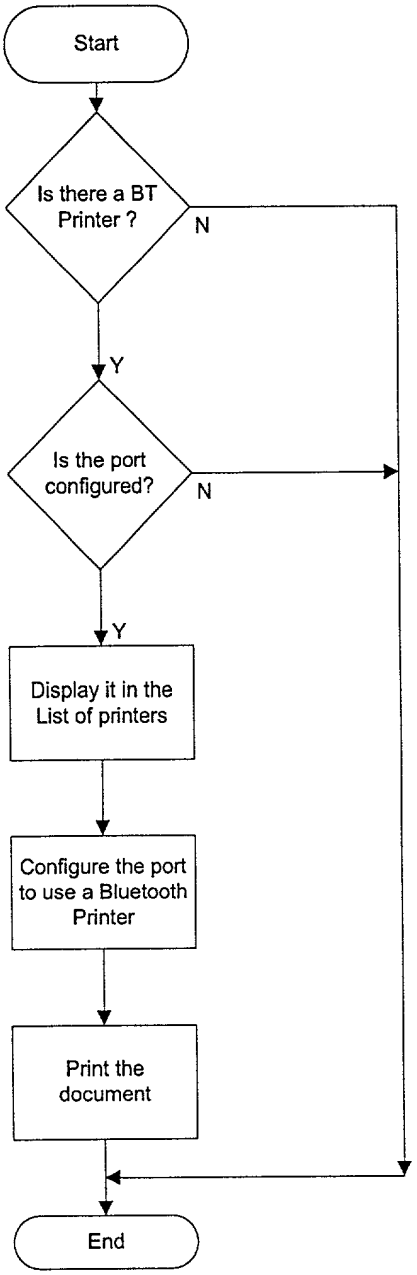

Fig. 16

EPSON Exhibit 1013 - Page 18 of 34

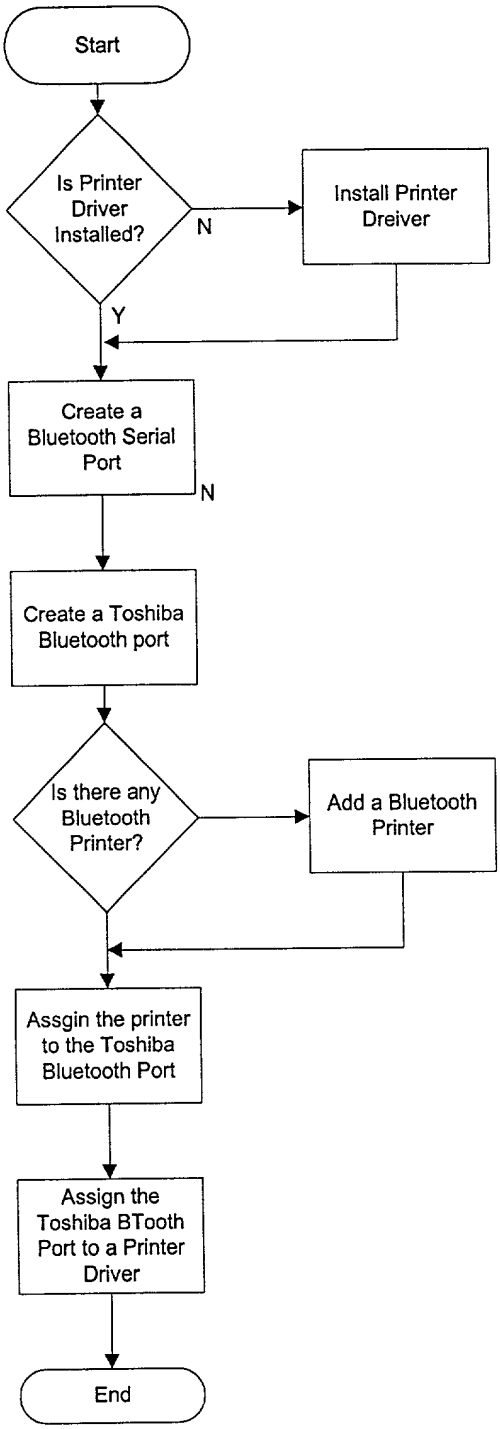

Fig. 17

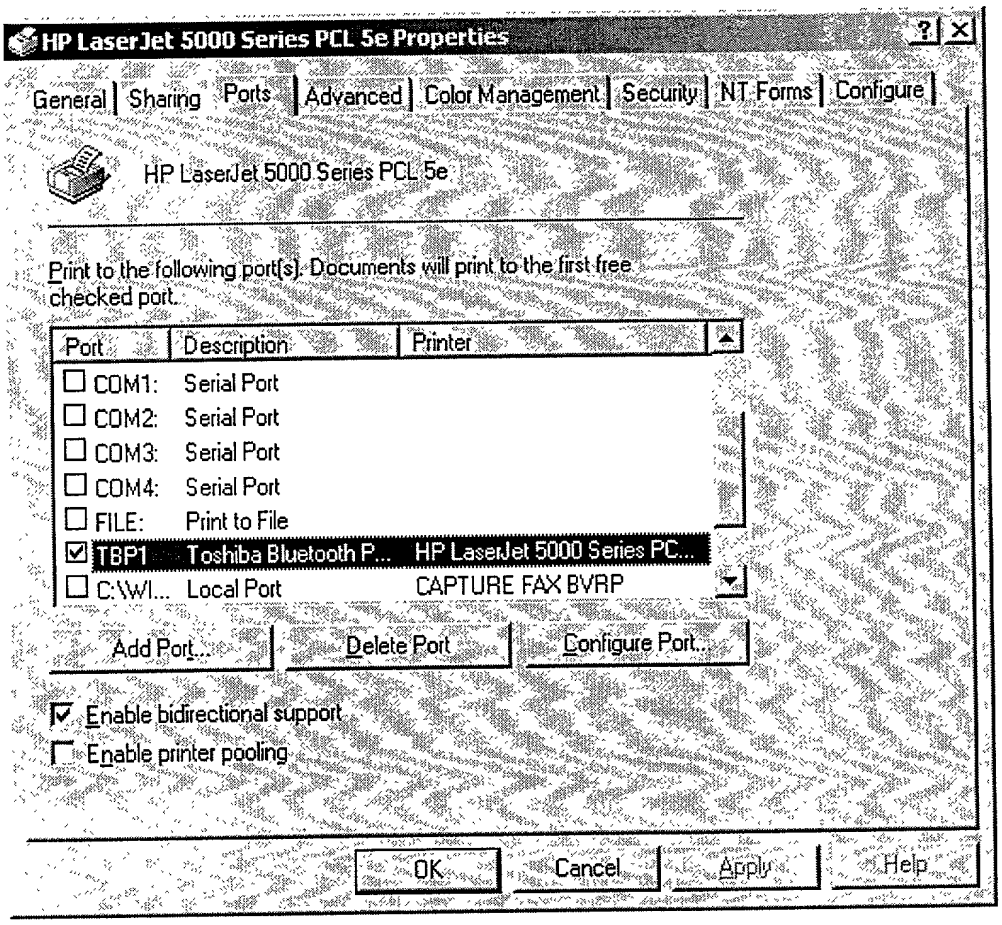
HP LaserJet 5000 Series PCL 5e Properties
General
Sharing
Ports
Advanced
Color Management
Security
NT Forms
Configure
HP LaserJet 5000 Series PCL 5e
Print to the following port(s). Documents will print to the first free checked port.
Port
Description
Printer
COM1: Serial Port
COM2: Serial Port
COM3: Serial Port
COM4: Serial Port
FILE: Print to File
TBP1 Toshiba Bluetooth P... HP LaserJet 5000 Series PC...
C:\WI... Local Port CAPTURE FAX BVRP
Add Port...
Delete Port
Configure Port...
Enable bidirectional support
Enable printer pooling
OK
Cancel
Apply
Help

Fig. 18

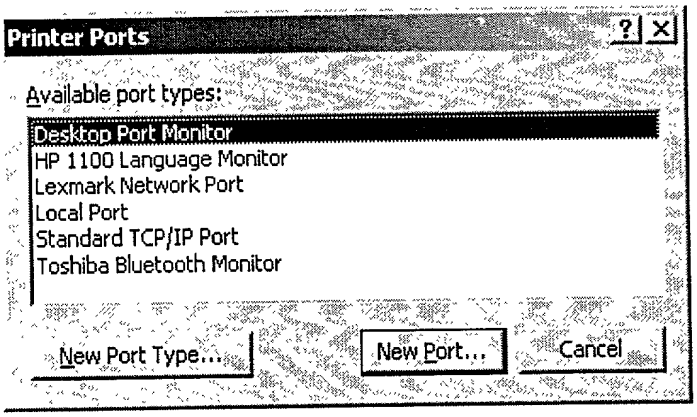
Printer Ports
Available port types:
Desktop Port Monitor
HP 1100 Language Monitor
Lexmark Network Port
Local Port
Standard TCP/IP Port
Toshiba Bluetooth Monitor
New Port Type...
New Port...
Cancel

Fig. 19

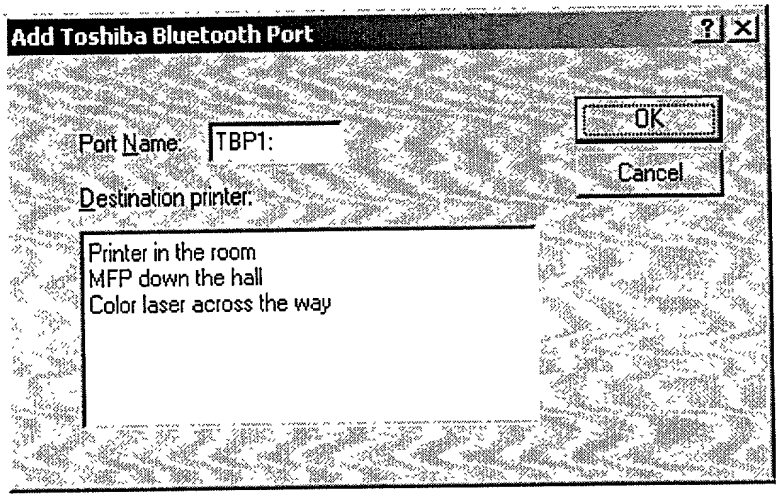
Add Toshiba Bluetooth Port
Port Name:
TBP1:
OK
Cancel
Destination printer:
Printer in the room
MFP down the hall
Color laser across the way

Fig 20

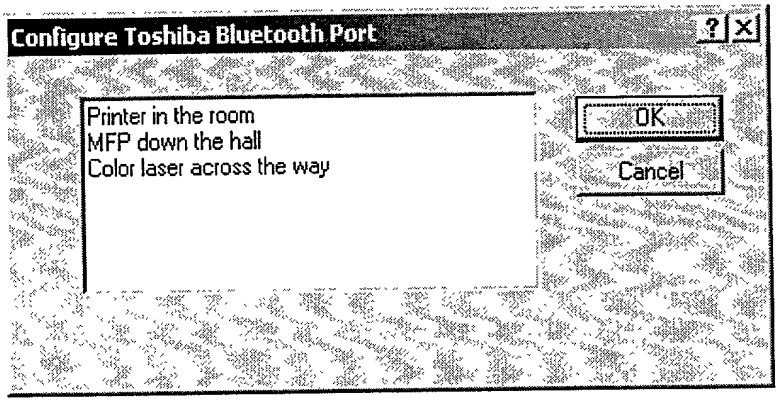
Configure Toshiba Bluetooth Port
Printer in the room
MFP down the hall
Color laser across the way
OK
Cancel

Fig 21

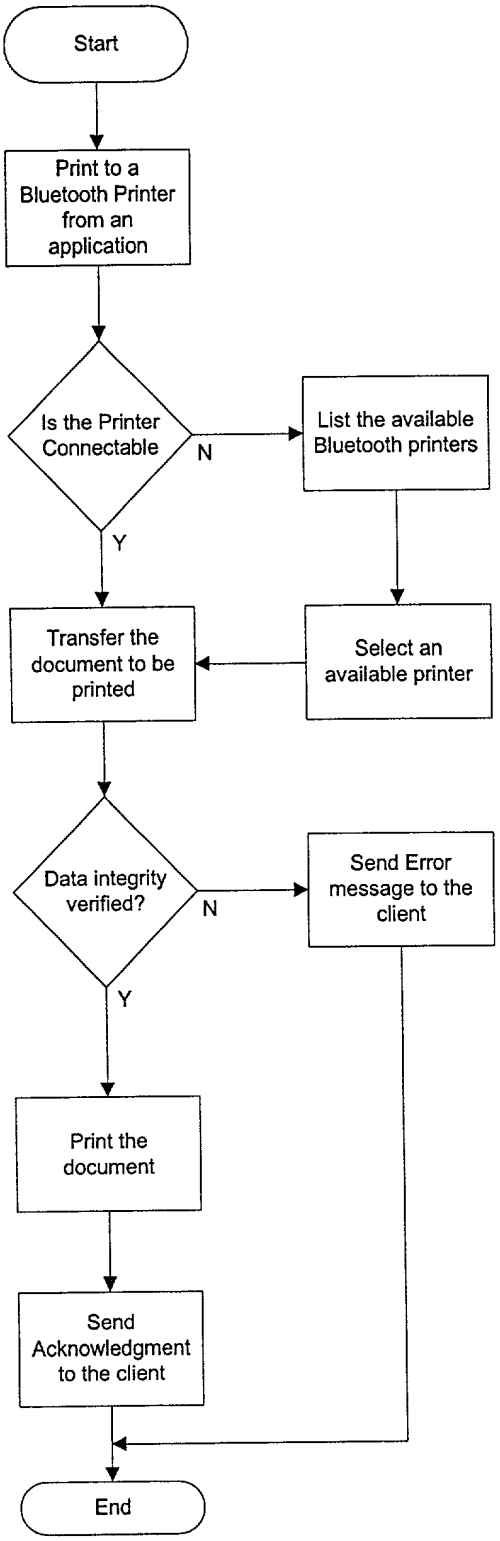
Start
Print to a Bluetooth Printer from an application
Is the Printer Connectable
N
List the available Bluetooth printers
Y
Transfer the document to be printed
Select an available printer
Data integrity verified?
N
Send Error message to the client
Y
Print the document
Send Acknowledgment to the client
End

Fig 22

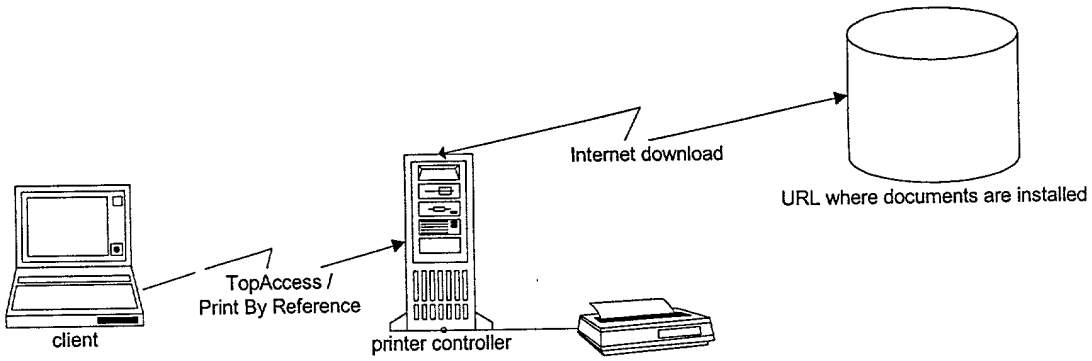
Internet download
URL where documents are installed
TopAccess /
Print By Reference
client
printer controller

Fig 23

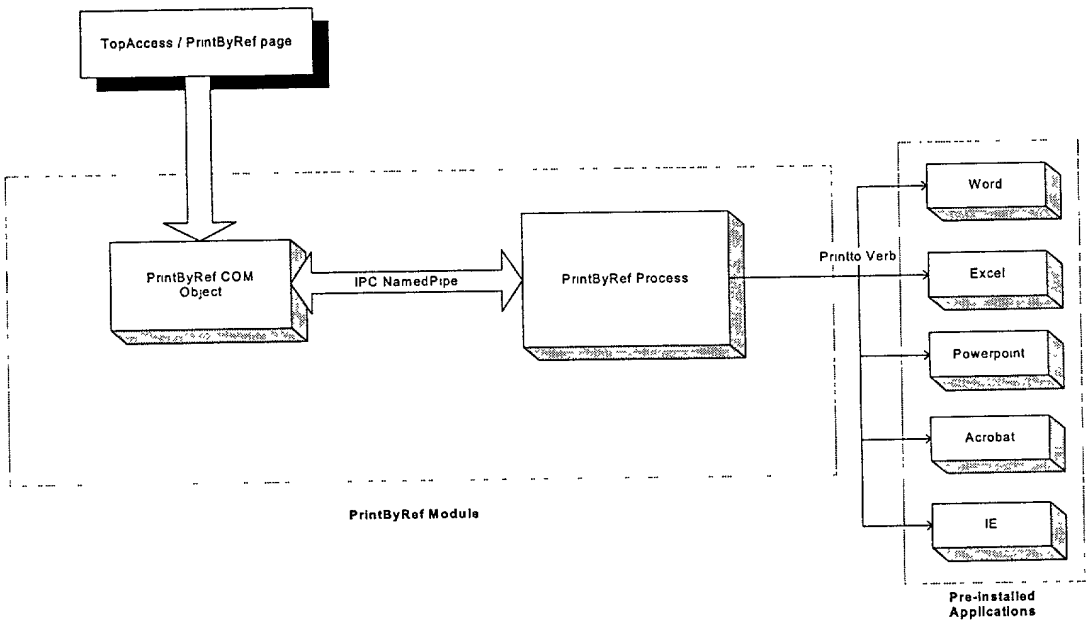
TopAccess / PrintByRef page
PrintByRef COM Object
IPC NamedPipe
PrintByRef Process
PrintByRef Module
Printto Verb
Word
Excel
Powerpoint
Acrobat
IE
Pre-installed Applications

Fig. 24

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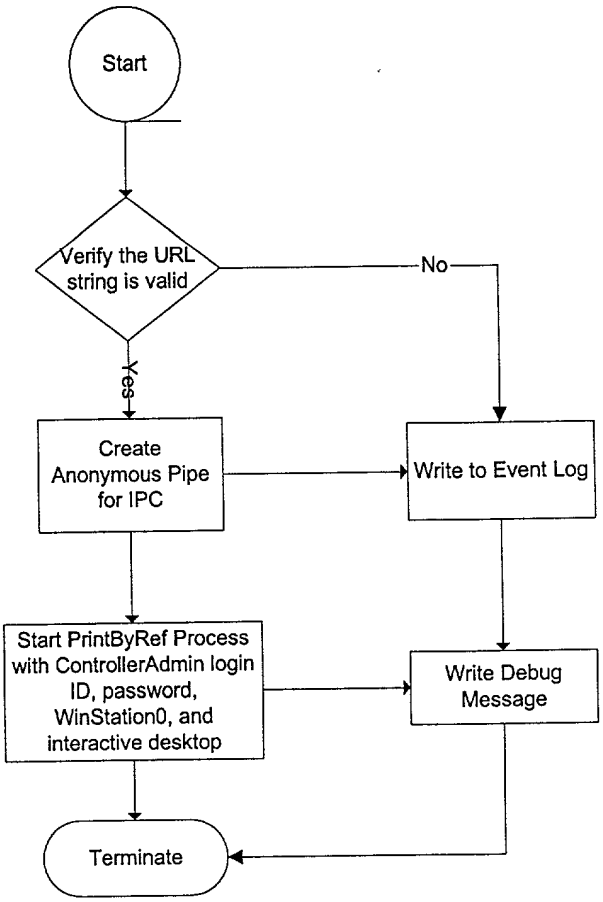

Fig. 25

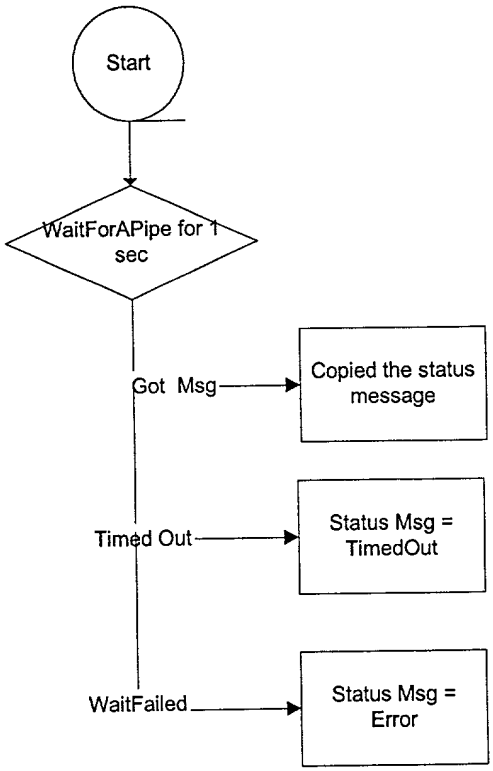
Start
WaitForAPipe for 1 sec
Got Msg
Copied the status message
Timed Out
Status Msg = TimedOut
WaitFailed
Status Msg = Error

Fig. 26

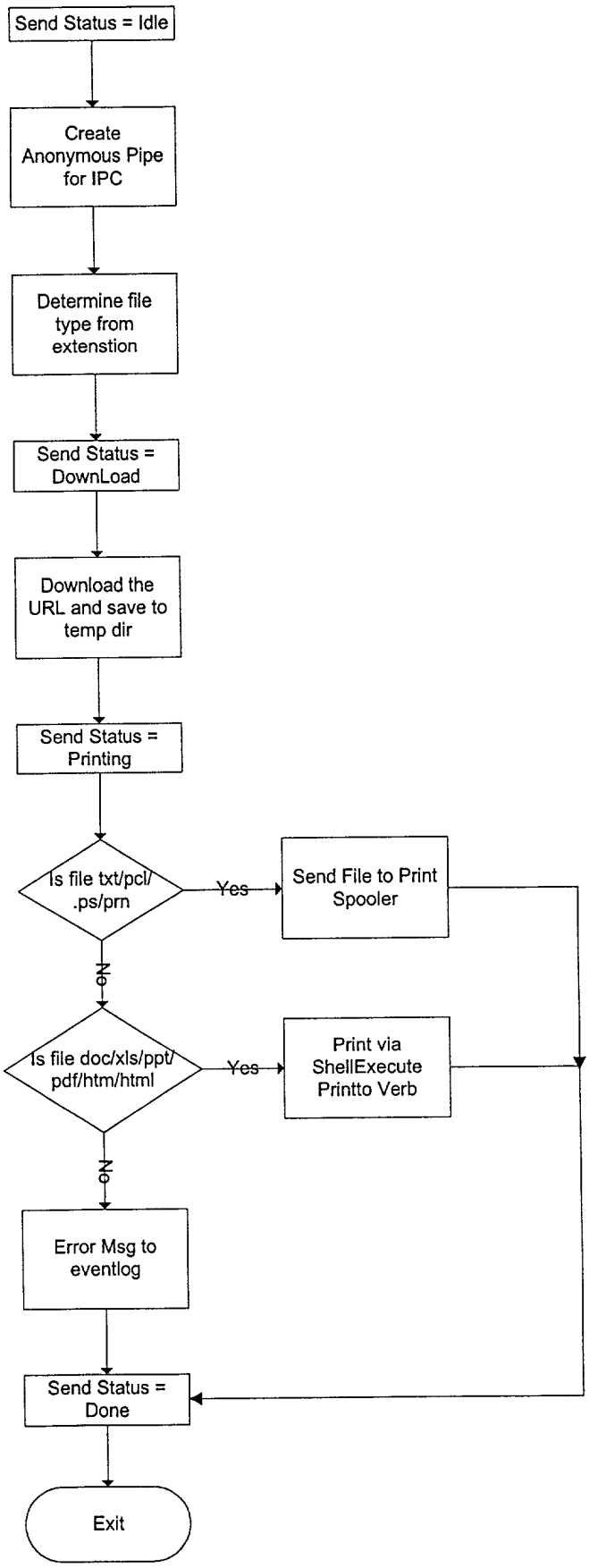
Send Status = Idle
Create Anonymous Pipe for IPC
Determine file type from extenstion
Send Status = DownLoad
Download the URL and save to temp dir
Send Status = Printing
Is file txt/pcl/ .ps/prn
Yes
Send File to Print Spooler
NO
Is file doc/xls/ppt/ pdf/htm/html
Yes
Print via ShellExecute Printto Verb
NO
Error Msg to eventlog
Send Status = Done
Exit

Fig 27